

*Sub B*

1. (amended) A control method for a magnetic disk drive having a processing unit controlling the magnetic disk drive, a magnetic head reading information on a magnetic disk medium, and an electronic circuit having a function to amplify said information read from said magnetic disk medium, a function to detect back electromotive force from a VCM actuator, a function to convert said back electromotive force detected as an analog value to a digital value, and a function to transfer said amplified readout information signal to said processing unit, the method comprising [the steps of]:

[1st] a first step [for] of stopping [supplying an] the supply of electric power to the whole of or a part of said functions to amplify said information read from said magnetic disk medium and to transfer said amplified readout information signal to said processing unit[,];i

[2nd] a second step [for seeking] of moving said magnetic head by using said back electromotive force of said VCM actuator[,];i

[3rd] a third step [for] of starting [supplying] the supply of an electric power to the whole of or a part of said functions to amplify said information read from said magnetic disk medium and to transfer said amplified readout information signal to said processing unit[,];i

[4th] a fourth step [for secondly] of again stopping [supplying] the supply of an electric power to the whole of or a part of said functions to amplify said information read from said magnetic disk medium and to transfer said amplified readout information signal to said processing unit[,];i and

[5th] a fifth step [for secondly seeking] of again moving  
said magnetic head by using said back electromotive force of  
said VCM actuator.

2. (amended) The control method according to claim 1,  
further comprising between [3rd] said third step and [4th]  
said fourth step,

an additional step [for] of amplifying said information  
read from said magnetic disk medium.

3. (amended) The control method according to claim 1,  
wherein the procedure from [3rd] said third step to [5th] the  
fifth step is repeated [regularly or] irregularly.

4. (amended) The control method according to claim 1,  
wherein the procedure from [3rd] the third step to [5th] the  
fifth step is repeated [with] according to a geometric  
series[-like], [a] an exponential function[-like], or an  
elementary function[-like period], or is repeated with [such]  
a period [as] such that said seek velocity is kept at a  
constant value.

5. (amended) A control method for a magnetic disk drive  
having a processing unit which controls the magnetic disk  
drive, an MR head which reads information on a magnetic disk  
medium, a read-write IC which has a function to amplify the  
information read from the magnetic disk medium and a function  
to shut off a sense current to the MR head and to provide it

to the MR head, and an electronic circuit which has a function to detect a back electromotive force from a VCM actuator, a function to convert the back electromotive force detected as an analog value to a digital value, and a read-write channel to transfer [an] amplified information to the processing unit, the method comprising [the steps of]:

[1st] a first step in which the sense current is shut off and [an] electric power is stopped in the whole of or a part of the read-write IC and the read-write channel[,];

[2nd] a second step in which the MR head is moved by using [the] a back electromotive force of the VCM actuator[,];

[3rd] a third step in which the sense current is provided and [an] electric power is supplied to the whole of or the part of the read-write IC and the read-write channel[,];

[4th] a fourth step in which [the] information read from the magnetic disk medium is amplified[,];

[5th] a fifth step in which the sense current is shut off and [an] electric power is stopped in the whole of or the part of the read-write IC and the read-write channel[,]; and

[6th] a sixth step in which the MR head is moved by using the back electromotive force of the VCM actuator.

6. (amended) A magnetic disk drive, comprising:  
a processing unit which controls the magnetic disk drive[,];

a magnetic head which reads information on a magnetic disk medium[,]; and

an electronic circuit which has a function to amplify

[the] information read from the magnetic disk medium, a function to detect a back electromotive force as an analog value from a VCM actuator, a function to convert the back electromotive force detected as an analog value to a digital value, and a function to transfer the amplified information to the processing unit[,];

wherein the magnetic disk drive has:

a function to execute an idle seek operation by using the back electromotive force of the VCM actuator without amplifying the information read from the magnetic disk medium, and

a function to amplify, after the idle seek operation, the information read from the magnetic disk medium, to obtain [a position] information concerning the position of the magnetic head, and then to change [a] the direction of the idle seek operation.

7. (amended) A magnetic disk drive, comprising:

a processing unit which controls the magnetic disk drive[,];

a magnetic disk medium[,];

a magnetic head which reads information on the magnetic disk medium[,]; and

an electronic circuit which has a function to amplify [the] information read from the magnetic disk medium, a function to detect back electromotive force from as an analog value a VCM actuator, a function to convert the back electromotive force detected as an analog value to a digital

value, and a function to transfer the amplified information to the processing unit[,]*i*

wherein the magnetic disk drive executes an idle seek operation by using the back electromotive force of the VCM actuator without amplifying the information read from the magnetic disk medium.

8. (amended) The magnetic disk drive according to claim 7, wherein if the magnetic disk drive has a magnetic disk medium having 8000 cylinders [on it's surface], then a direction of the idle seek is reversed when the magnetic head is in a range from the 0th cylinder to the 500th cylinder and in a range from the 7500th cylinder to the 8000th cylinder on the magnetic disk medium.

9. (amended) A magnetic disk drive, comprising:  
a processing unit controlling the magnetic disk drive[,]*i*  
a magnetic disk medium[,]*i*  
a magnetic head reading information on the magnetic disk medium[,]*i* and  
an electronic circuit having a function to amplify the information read from the magnetic disk medium, a function to detect a back electromotive force from a VCM actuator, a function to output a signal corresponding to the back electromotive force, and a function to transfer the amplified information to the processing unit[,]*i*  
wherein the magnetic disk drive executes an idle seek operation by using the back electromotive force of the VCM

actuator without amplifying the information read from the  
magnetic disk medium.

**IN THE ABSTRACT OF THE DISCLOSURE:**

Please replace the original abstract with the following  
new abstract: